

## CLAIMS

What is Claimed is:

1. An optical pickup comprising:  
5       a base;  
  
      a movable part having, an objective lens, a laser diode, and photodetectors; and  
  
      a heat dissipating medium provided in a gap between the laser diode and the base.
2. The optical pickup of Claim 1, wherein the device further comprises a first  
10   yoke provided on the base, and  
  
      wherein the heat dissipating medium is provided in a gap between the first yoke  
      and the laser diode.
3. The optical pickup of Claim 1, wherein the heat dissipating medium is a fluid,  
15   and  
  
      wherein a region having a different wettability to the heat dissipating medium is  
      formed in a portion of the laser diode which faces the base.
4. The optical pickup of Claim 1, wherein the heat dissipating medium is  
20   deformed in accordance with the motion of the movable part.
5. The optical pickup of Claim 1, wherein the heat dissipating medium is a  
ferrofluid.
- 25       6. The optical pickup of Claim 5, wherein the heat dissipating medium is

supported by magnetic field.

7. The optical pickup of Claim 1, wherein the heat dissipating medium is viscous.

5           8. The optical pickup of Claim 1, wherein the device further comprises second yokes provided on both sides of the movable part,

          wherein the second yokes with magnets are connected to the base,

          wherein coils are mounted on the movable part, and

          wherein the heat dissipating medium is also provided between the magnets and  
10   the coils.